IN THE CLAIMS

This listing of claims will replace all prior versions, and listings of claims in the application:

- 1. (currently amended) A phosphor comprising a material having a formula of AB₃O₆:Ce,Mn, wherein A is at least a <u>combination of gadolinium and yttrium rare-earth metal other than cerium</u>.
- 2. (currently amended) The phosphor according to claim 1, wherein A further includes materials is selected from the group consisting of gadolinium, scandium, yttrium, lanthanum, samarium, terbium, lutetium, and combinations thereof.
 - 3. (canceled).
 - 4. (canceled).
- 5. (original) The phosphor according to claim 1, wherein each of cerium and manganese is present in said phosphor in an amount from about 0.01 to about 30 mole percent of a total amount of A, cerium, and manganese.
- 6. (original) The phosphor according to claim 1, wherein each of cerium and manganese is present in said phosphor in an amount from about 0.1 to about 10 mole percent of a total amount of A, cerium, and manganese.
- 7. (original) The phosphor according to claim 1, wherein each of cerium and manganese is present in said phosphor in an amount from about 0.1 to about 5 mole percent of a total amount of A, cerium, and manganese.

- 8. (currently amended) A phosphor <u>blend</u> comprising a material having a formula of $(Gd_{1-x-y}Ce_xMn_z)B_3O_6$; wherein 0 < x, y, z < 1; 0 < 1-x-y < 1; and (2/3) $z \le y \le z$.
 - 9. (canceled)
- 10. (original) A phosphor blend comprising: (a) a phosphor having a formula of AB₃O₆:Ce,Mn, wherein A is at least a rare-earth metal other than cerium; (b) a red light-emitting phosphor; and (c) a blue light-emitting phosphor.
- 11. (currently amended) The phosphor blend according to claim <u>10</u> 18, wherein the phosphor blend further comprises a green light-emitting phosphor.
- 12. (original) A phosphor blend comprising: (a) a phosphor having a formula of AB₃O₆:Ce,Mn, wherein A is at least a rare-earth metal other than cerium; (b) (Ba,Sr,Ca)MgAl₁₀O₁₇:Eu²⁺; (c) (Y,In)BO₃:Eu³⁺; and (d) Y₂O₃:Eu³⁺.
- 13. (original) The phosphor blend according to claim 12, wherein the phosphor of (a) has a formula of (Gd_{0.97}Ce_{0.015}Mn_{0.015})B₃O₆.
- 14. (currently amended) A method for making a phosphor, the method comprising:
- (a) mixing oxygen-containing compounds of: (1) boron; (2) at least a rareearth metal other than cerium; (3) cerium; and (4) manganese to form a mixture; and
- (b) firing the mixture in a reducing atmosphere at a temperature in a range from about 900C900°C to about 1300C1300°C for a time sufficient to convert the mixture to the a phosphor, wherein the phosphor comprises a material having a formula of AB₃O₆:Ce,Mn, wherein A is at least a rare-earth metal other than cerium.

- 15. (original) The method according to claim 14; wherein said at least a rare-earth metal other than cerium is selected form the group consisting of gadolinium, scandium, yttrium, lanthanum, samarium, terbium, lutetium, and combinations thereof.
- 16. (original) The method according to claim 14, wherein the mixture further comprises at least a material selected from the group consisting of lithium tetraborate, lithium carbonate, hydrogen borate, alkali hydroborate, and mixtures thereof.
- 17. (currently amended) A method for making a phosphor, the method comprising:
- (a) providing a first solution that comprises compounds of: (1) boron; (2) at least a rare-earth metal other than cerium; (3) cerium, and (4) manganese;
- (b) combining the first solution and a second solution, the second solution comprising at least a compound selected from the group consisting of ammonium hydroxide; hydroxides of at least one element selected from the group consisting of cerium, manganese, and said at least a rare-earth metal other than cerium; organic esters; organic dicarboxylic acids; phosphoric acid; and organic amines to produce a precipitate;
- (c) heating the precipitate in an oxygen-containing atmosphere at a temperature in a range from about 700C700°C to about 1300C1300°C for a time sufficient to convert the precipitate to an oxygen-containing material that comprises said cerium, manganese, and said at least a rare-earth metal other than cerium; and
- (d) firing said oxygen-containing material in a reducing atmosphere at a temperature in a range from about 900C900°C to about 1300C1300°C for a time sufficient to convert said oxygen-containing material to the a phosphor, wherein the phosphor comprises a material having a formula of AB₃O₆:Ce,Mn, wherein A is at least a rare-earth metal other than cerium.

- 18. (original) The method according to claim 17; wherein said at least a rare-earth metal other than cerium is selected form the group consisting of gadolinium, scandium, yttrium, lanthanum, samarium, terbium, lutetium, and combinations thereof.
- 19. (currently amended) A method for making a phosphor, said method comprising:
- (a) providing a first solution that comprises compounds of: (1) at least a rareearth metal other than cerium; (2) cerium, and (3) manganese;
- (b) combining the first solution and a second solution, the second solution comprising at least a compound selected from the group consisting of ammonium hydroxide; hydroxides of cerium, manganese, and said at least a rare-earth metal other than cerium; organic esters; organic dicarboxylic acids; phosphoric acid; and organic amines to produce a precipitate;
- (c) heating the precipitate in an oxygen-containing atmosphere at a temperature in a range from about 700C700°C to about 1300C1300°C for a time sufficient to convert the precipitate to an oxygen-containing material that comprises said at least a rare-earth metal other than cerium, cerium, and manganese;
- (d) combining said oxygen-containing material with at least an oxygen-containing compound of boron to form a mixture; and
- (e) firing said mixture in a reducing atmosphere at a temperature in a range from about 900C900°C to about 1300C1300°C for a time sufficient to convert said oxygen-containing material to the a phosphor, wherein the phosphor comprises a material having a formula of AB₃O₆:Ce,Mn, wherein A is at least a rare-earth metal other than cerium.
- 20. (original) The method according to claim 19; wherein said at least a rare-earth metal other than cerium is selected form the group consisting of gadolinium, scandium, yttrium, lanthanum, samarium, terbium, lutetium, and combinations thereof.

- 21. (original) A light source comprising:
- (a) a source of UV radiation that is located in a sealed housing; and
- (b) a phosphor disposed within the sealed housing and adapted to be excited by the UV radiation and to emit visible light, wherein the phosphor comprises a material having a formula of AB₃O₆:Ce,Mn, wherein A is at least a rare-earth metal other than cerium.
- 22. (original) The light source according to claim 21, wherein said at least a rare-earth metal other than cerium is selected form the group consisting of gadolinium, scandium, yttrium, lanthanum, samarium, terbium, lutetium, and combinations thereof.
- 23. (original) The light source according to claim 21, wherein said at least a rare-earth metal other than cerium is a combination of gadolinium and yttrium.
- 24. (original) The light source according to claim 21, wherein said at least a rare-earth metal other than cerium is gadolinium.
- 25. (original) The light source according to claim 21, wherein the source of UV radiation is a mercury gas discharge.
 - 26. (original) A display comprising:
- (a) a source of radiation that is located in a sealed housing, said radiation comprising high-energy electrons; and
- (b) a phosphor disposed within the sealed housing and adapted to be excited by the radiation and to emit visible light, wherein the phosphor comprises a material having a formula of AB₃O₆:Ce,Mn, wherein A is at least a rare-earth metal other than cerium.

27. (New) A phosphor comprising a material having a formula of AB₃O₆:Ce,Mn, wherein A is at least a rare-earth metal other than cerium and gadolinium.